

Operations Research/Computer Science Interfaces Series

El-Ghazali Talbi
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Lionel Amodeo *Editors*

Metaheuristics for Production Systems



 Springer

Metaheuristics Production Operations Research Interfaces

**Jose M. Framinan, Rainer
Leisten, Rubén Ruiz García**



Metaheuristics Production Operations Research Interfaces:

Metaheuristics for Production Systems El-Ghazali Talbi, Farouk Yalaoui, Lionel Amodeo, 2015-11-26 This book discusses the main techniques and newest trends to manage and optimize the production and service systems The book begins by examining the three main levels of decision systems in production the long term strategic the middle term tactical and short term operational It also considers online management as a new level a sub level of the short term As each level encounters specific problems appropriate approaches to deal with these are introduced and explained These problems include the line design the line balancing optimization the physical layout of the production or service system the forecasting optimization the inventory management the scheduling etc Metaheuristics for Production Systems then explores logistic optimization from two different perspectives internal production management addressing issues of scheduling layout and line designs and external supply chain management focusing on transportation optimization supply chain evaluation and location of production The book also looks at NP hard problems that are common in production management These complex configurations may mean that optimal solutions may not be reached due to variables but the authors help provide a good solution for such problems The effective new results and solutions offered in this book should appeal to researchers managers and engineers in the production and service industries

Heuristics for Optimization and Learning Farouk Yalaoui, Lionel Amodeo, El-Ghazali Talbi, 2020-12-15 This book is a new contribution aiming to give some last research findings in the field of optimization and computing This work is in the same field target than our two previous books published Recent Developments in Metaheuristics and Metaheuristics for Production Systems books in Springer Series in Operations Research Computer Science Interfaces The challenge with this work is to gather the main contribution in three fields optimization technique for production decision general development for optimization and computing method and wider spread applications The number of researches dealing with decision maker tool and optimization method grows very quickly these last years and in a large number of fields We may be able to read nice and worthy works from research developed in chemical mechanical computing automotive and many other fields

Metaheuristics Patrick Siarry, 2016-12-24 Metaheuristics exhibit desirable properties like simplicity easy parallelizability and ready applicability to different types of optimization problems After a comprehensive introduction to the field the contributed chapters in this book include explanations of the main metaheuristics techniques including simulated annealing tabu search evolutionary algorithms artificial ants and particle swarms followed by chapters that demonstrate their applications to problems such as multiobjective optimization logistics vehicle routing and air traffic management The authors are leading researchers in this domain with considerable teaching and applications experience and the book will be of value to industrial practitioners graduate students and research academics

Recent Developments in Metaheuristics Lionel Amodeo, El-Ghazali Talbi, Farouk Yalaoui, 2017-09-18 This book highlights state of the art developments in metaheuristics research It examines all

aspects of metaheuristic research including new algorithmic developments applications new research challenges theoretical developments implementation issues in depth experimental studies The book is divided into two sections Part I is focused on new optimization and modeling techniques based on metaheuristics The chapters in this section cover topics from multi objective problems with fuzzy data with triangular valued objective functions to hyper heuristics optimization methodology designing genetic algorithms and also the cuckoo search algorithm The techniques described help to enhance the usability and increase the potential of metaheuristic algorithms Part II showcases advanced metaheuristic approaches to solve real life applications issues This includes an examination of scheduling the vehicle routing problem multimedia sensor network supplier selection bin packing objects tracking and radio frequency identification In the fields covered in the chapters are of high impact applications of metaheuristics The chapters offer innovative applications of metaheuristics that have a potential of widening research frontiers Altogether this book offers a comprehensive look at how researchers are currently using metaheuristics in different domains of design and application

Modeling, Analysis, and Applications in Metaheuristic Computing: Advancements and Trends Yin, Peng-Yeng, 2012-03-31 This book is a collection of the latest developments models and applications within the transdisciplinary fields related to metaheuristic computing providing readers with insight into a wide range of topics such as genetic algorithms differential evolution and ant colony optimization Provided by publisher

Manufacturing Scheduling Systems Jose M. Framinan, Rainer Leisten, Rubén Ruiz García, 2014-02-19 The book is devoted to the problem of manufacturing scheduling which is the efficient allocation of jobs orders over machines resources in a manufacturing facility It offers a comprehensive and integrated perspective on the different aspects required to design and implement systems to efficiently and effectively support manufacturing scheduling decisions Obtaining economic and reliable schedules constitutes the core of excellence in customer service and efficiency in manufacturing operations Therefore scheduling forms an area of vital importance for competition in manufacturing companies However only a fraction of scheduling research has been translated into practice due to several reasons First the inherent complexity of scheduling has led to an excessively fragmented field in which different sub problems and issues are treated in an independent manner as goals themselves therefore lacking a unifying view of the scheduling problem Furthermore mathematical brilliance and elegance has sometimes taken preference over practical general purpose hands on approaches when dealing with these problems Moreover the paucity of research on implementation issues in scheduling has restricted translation of valuable research insights into industry

Manufacturing Scheduling Systems An Integrated View on Models Methods and Tools presents the different elements constituting a scheduling system along with an analysis the manufacturing context in which the scheduling system is to be developed Examples and case studies from real implementations of scheduling systems are presented in order to drive the presentation of the theoretical insights The book is intended for an ample readership including industrial engineering operations post graduate students and researchers business managers and readers seeking

an introduction to the field *Metaheuristic Optimization via Memory and Evolution* Cesar Rego, Bahram Alidaee, 2006-03-30 Tabu Search TS and more recently Scatter Search SS have proved highly effective in solving a wide range of optimization problems and have had a variety of applications in industry science and government The goal of Metaheuristic Optimization via Memory and Evolution Tabu Search and Scatter Search is to report original research on algorithms and applications of tabu search scatter search or both as well as variations and extensions having adaptive memory programming as a primary focus Individual chapters identify useful new implementations or new ways to integrate and apply the principles of TS and SS or that prove new theoretical results or describe the successful application of these methods to real world problems **Interfaces in Computer Science and Operations Research** R. S. Barr, R.V. Helgason, Jeffrey L. Kennington, 2012-12-06 The disciplines of computer science and operations research OR have been linked since their origins each contributing to the dramatic advances of the other This work explores the connections between these key technologies how high performance computing methods have led to advances in OR deployment and how OR has contributed to the design and development of advanced systems The collected writings from researchers and practitioners in Computer Science Operations Research Management Science and Artificial Intelligence were among those delivered at the Fifth INFORMS Computer Science Technical Section Conference in Dallas Texas January 8 10 1996 The articles advance both theory and practice Presented are new approaches to complex problems based on metaheuristics neural networks genetic algorithms and Tabu Search optimization and mathematical programming stochastic methods constraint programming and logical analysis These advanced methodologies are applied to new applications in such areas as telecommunications network design financial engineering manufacturing project management and forecasting airline and machine scheduling vehicle routing modeling and decision support systems Featured is a remarkable paper by keynote speaker Fred Glover creator of the Tabu Search family of metaheuristics In it he develops the principles of memory based heuristic methods contrasts them with the popular genetic algorithms and simulated annealing provides a sweeping survey of application vignettes and points to promising avenues for future research *Metaheuristics in Combinatorial Optimization* Gilbert Laporte, Ibrahim H. Osman, 1996 *Sustainable Logistics Systems Using AI-based Meta-Heuristics Approaches* Jiuping Xu, Mitsuo Gen, Zongmin Li, Youngsu Yun, 2023-12-22 This book introduces and analyses recent trends and studies of sustainable logistics systems using AI based metaheuristics approaches including AI based metaheuristics applied to supply chain network models integrated multi criteria decision making approaches for green supply chain management uncertain supply chain models etc It emphasizes both theory and practice providing methodological and theoretical basis as well as case references for sustainable logistics systems using AI based metaheuristics Most of multi national enterprises today face the challenge of sustainable development for their logistics systems trying to meet or exceed customer expectations Sustainable development attracts both researchers and industrial practitioners who are focused on the design and

implementation of logistics system AI based meta heuristics approaches has emerged as a capable method for quickly providing optimal or near optimal solutions for the problems that exact optimization cannot solve Recent advances in various AI based meta heuristics approaches can resolve various and complex logistics and supply chain problem types This book mainly encompasses the most popular and frequently employed AI based meta heuristics approaches such as genetic algorithm variable neighborhood search multi objective heuristic search and the hybrid of these approaches The chapters in this book were originally published in the International Journal of Management Science and Engineering Management

Mathematical Reviews ,2008 *Tutorials in Operations Research* Institute for Operations Research and the Management Sciences. National Meeting,2008 **Interfaces** ,2004 Seeks to improve communication between managers and professionals in OR MS **Stochastic Models of Production-inventory Systems** ,2004 **Meta-heuristics** Ulrich Derigs,2004 *Operations Research and Systems (CLAIO 2000): Probability and mathematical programming* ,2002
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